

FIGURE 1

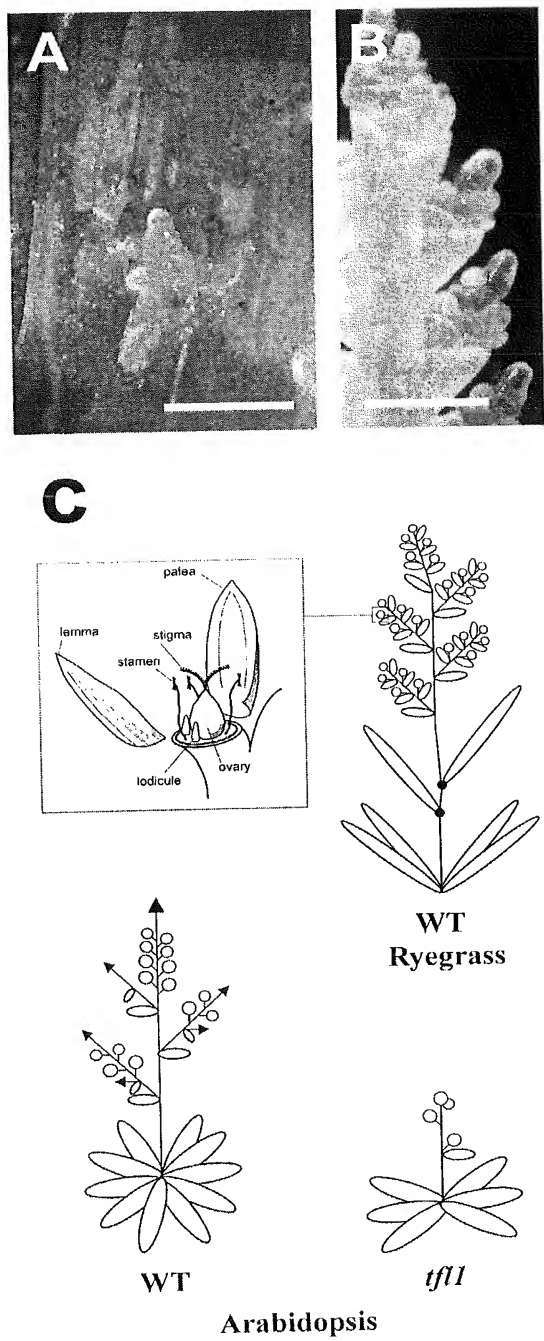


FIGURE 2

		GCC	-76
-75	CAAGCCACTTCAAAGCTTTGCTACTACCAGATAGAGCATTCACCGTGCAATATAGAAATAC TTGCCTCTCCAACC		-1
1	ATGTCTAGGTCTGTGGAGCCTCTTATTTGTTGGTCGTGTTCATTTGGAGAAGTTCTCGATCCATTTAACCCTGTGTG		75
76	AAGATGGTAGCAACCTATAACTCAAACAAGCTGGTCTTCAATGGTCATGAGCTCTACCCATCAGCAGTTGTATCT		150
151	AAACCAAGAGTAGAGGTTCAAGGGGGTGACTTGCGATCCTTATTCACATTTGGTTATGACGGACCCAGATGTGCCA		225
226	GGACCAAGTGATCCGTATCTGCGGGAGCATCTTCACTGGATTGTCAGTAATATACCTGGGACAACAGATGCTTCA		300
301	TTTGGGGGGGAGGTCATGAGCTATGAGAGCCCAAAGCCCAACATTTGGAATCCACAGGTTTCAATTTTGTGCTCTTC		375
375	AAGCAGAAGCGAAGGCAGACTGTATCTGTGCCTTCTTCAGGGATCATTTCAACACCCGCCAGTTTGTGTGGAT		450
451	AATGATCTTTGGCTCCCTGTGGCTGCTGTCTTACTTCAATTGTCAGAGAGAGACTGCTGCCAGGAGGCGCTGAAAA		525
526	TCGAGTTCTTGGCTATCCAGTTGTGCCAAATAAAGGCTTTTGGAGTTATGCACCTTCTTCTGAAGTCAATGCT		600
601	CCTCTTCTACATTACTTCCCTCGTGGACCATTGCTTCTTTACTACAGTTTTTGTCTCAGGGATCAAATAAATCAAGT		675
675	GCATTTTGGAGATTGTAATTAGATTATATTGTAAGCAGTGAGATCAGCAACCATGTGTTAACATAAGCCAGTACAT		750
751	TAGCAGGTCCATGTTTATGGTTTCATGTTGTGTGTAAGCAGTTATCACTAGAAGGAAGGTCAGGTAGACAACCCA		825
826	AAC TGGCAAAAAAAAAAGCTTTATCTA		851

FIGURE 3A

-3600 cactagtaacggccgcccagtgctggaattcagggttaatacagactcactatagggmgctcgaggatcttccac -3526
-3525 cagtgtgcattcatgtgttacttaccactctccaacttgagggaactcaagattgggtgggggctccttttcgctg -3451
-3450 aagcgatccaaagggtgtcgggttaacgggttatgacagcaaacagaaaacatcgccatctgcacggaagccagaagt -3376
-3375 agttactatgtcaaagggatataaaaaactcactaatgaagggggatgctattgctgagataaaactgctatctca -3301
-3300 tctacaggtgagattgcaagtatacttgacaacaggggccagatggatggcatgaagaaaattagggctggagta -3226
-3225 gaaaggttaagatatgcatggatttggatgagatggcttagaggggttgcgagatatcaaatagaagacacttcttca -3151
-3150 atgattcaatagaagatgcatgtgccattacagagtggattattatgtcctttttaagagatgcttacgtccct -3076
-3075 gaccttttctataacacaattacactcctttgctagacttttccctgctataattgtctttccctcgccaaaagaat -3001
-3000 aatactatagaacttccataatttaatttcccttattttcttggactctatcttaattctcctcctattgttcag -2926
-2925 ccaaggactgctccttccatttacttgccgccacgggctgactgacaatgacacctgcgcgctttgtgatcaagag -2851
-2850 cctgaatctattttctcacctcatgctgcaatgctccttctcacagcaaatatggatgatatactgcagtaagctc -2776
-2775 aaccttctgccatgtatgccagttggcaacgcgcagttcagcatttgggtcgcgcgagctgccgccaacgctcaa -2701
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-2325 gcatgtgttcgagaaaaaaatttacttacctcttaggctataattctcttcccaacttggactccacaagcttc -2251
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-2175 cataccaacaaaaaagctaatgccgccctgtgtttcaaatgaattatctgattgtgatgctgctaattctttt -2101
-2100 gcataatgagctcgggcatatgaatgaacttgggttggcagaatgaacaagagaggacttcttgatggatatag -2026
-2025 cactggtaagctgaagtctctgtgagcaggtatgatgttccctgttaaaaaaaggctatgaaaaacttgtgat -1951
-1950 aggtgttaagtatgtgttttattttgctgcaaattggatgcatggaaagtgttagtgctactagtctgtgtgtg -1876
-1875 ctactgtgctaccaacacactgtagcactgccccaaaatttatgaaaaagtctgaacagacgagatgtatctatca -1801
-1800 attcatggagcccattttgttataattttcttttaaaataaaaaattccgtaagaatcaataagtggaattattg -1726
-1725 gaaatgaaaaaagtaaccaaaataactaaacttttttccaatacagatcggaatcatggagacacactgggtac -1651
-1650 cattgggttgaatagctacttagattccactacagctagggtgtcaagcaactataatggcactcagaatggagcaga -1576
-1575 aaaatgtcacaaagctgtacttccactccactacttctagctgcacaaatgtcaagcagggcatgatgactagacc -1501
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-1200 acaacttcccttttcccttaacagaaaaagaatcggtcaaacgaggttgcctaaaccaaacactataaagacg -1126
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-825 cattgttctgtaattgtggtctgaatttcggactgctcatctgatcttccctctggtagaatacataaataattat -751
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-675 ccagcactttgtcgtttgccttaaccaatattaacatagttcagcaacataatcttcagagaccactagcatga -601
-600 aggtgtgttatgtttcctaaagaaataacatgtaggtagtgatcacaataccttttttgggactataaggtgg -526
-525 gaaacctcaacttgaaaagggttccattttaatcaagtaaaaaaacagtattttttaactatcaataactaaaa -451
-450 ttaaaacagaatagagatataactaacaatgaaaatcaaacagttgtgcaaatgtattttatcgtagtttagtatct -376
-375 catgtttctggtgaaaaaattctctgcccctagaacttgggaagaagatgcatgaagtattactccaaactccaac -301
-300 actgtgcaactgatagaaaaagaacaagacccttgggtggctgtctcggaaaaagtggttaggtcctttctgtgg -226
-225 ccttttcagttctttccacgcatacccaacaaaaaagaacacagatactactcatgtctcacattctcttttga -151
-150 gcttacactcgaagcaggcttcttgccctataagtagaggctcgtctactctagcaatgctcagtaagcaGCC -76
-75 CAAGCCACTTCAAAGCTTTGCTACTACCAGATAGAGCATTCACCGTGCAATATAGAAATACTTGCCTCTCCCAACC -1
1 ATGTCTAGGTCTGTGGAGCCTTATTATTGTTGGTGTGTCATTGGAGAAGTTCTCGATCCATTTAACCCATGTGTG 75
76 AAGATGGTAGCAACCTATAACTCAAACAAGCTGGTCTTCAATGGTCATGAGCTCTACCCATCAGCAGTTGTATCT 150
151 AAACCAAGAGTAGAGGTTCAAGGGGGTGACTTGCATCCTTATTCACATTGgtagaatgcactcgactcgactcctt 225
226 ggaactccatattcaacttcagatttgtatgctgttttcttcttcttgcagtgccataattattcatatttca 300
301 gGTTATGACGGACCCAGATGTGCCAGGACCAAGTGATCCGTATCTGCGGGAGCATCTTCACTGGtaacctttctc 375
375 atgcacagttttttctgctgggtggctactaagcacctaaatatattagtatatttttttgaaaggaaaatatat 450

FIGURE 3B

451 tagtatatgttgctaaggaatatagaagtacatcttctctcttgacatatatagacagagagactattttaatag 525
526 cacttctaacgagagtcatttaccacacacacacagcATTGTCAGTAATATACCTGGGACAACAG 600
601 ATGCTTCATTTGGtaggtccttctctgagatttgaattggtatattctatgttctgcattttgaatgaataacca 675
675 ctgaccttttgaattgcaggGGGGGAGGTCATGAGCTATGAGAGCCCAAAGCCCAACATTGGAATCCACAGGTTTC 750
751 ATTTTGTGCTCTTCAAGCAGAAGCGAAGGCAGACTGTATCTGTGCCTTCCTTCAGGGATCATTTCAACACCCGC 825
826 CAGTTTGTGCTGTGGATAATGATCTTGGCCTCCCTGTGGCTGCTGTTTACTTCAATTGTGAGAGAGACTGCTGCC 900
901 AGGAGGCGCTGAAAATCGAGTTCTTGGCTATCCAGTTGTGCCAAATAAAGGCTTTGGAGTTATGCACCTTCTT 975
976 TCTGAAGTCAATGCTCCTCTTCTACATTACTTCTCGTGGACCATTGCTTCTTTACTACAGTTTTTGCTCAGGGA 1050
1051 TCAAATAAATCAAGTGCATTTTGGAGATTGTATTAGATTATATTGTAAGCAGTGAGATCAGCAACCATGTGTTAA 1125
1126 CATAAGCCAGTACATTAGCAGGTCCATGTTTATGGTTTCATGTTGTGTGTAAGCAGTTATCACTAGAAGGAAGGT 1200
1201 CAGGTAGACAACCCAACTGGCAAAAAAAAAAGCTTTATCTActgtatggcccttgccggcttgatgttccatgc 1275
1276 accttttctgacatgctgtctactgtatgccaccgccactataatgtatgagatatgaatataaaatggagatat 1350
1351 ccaaaatatccagatgattgcccactaaatgctaaatgtacatagtggttttccacctattttgacttccatcat 1425
1426 gtccttacacaaaatcagaaaacatccatttcatgcacattgatgcacactgcatattaacaatctattcagatt 1500
1501 tggctgtaaacacacccttattttccgcatccattaatattatattagtagccctggacaggttaagcttttgcag 1575
1576 cacagtaagtaaccgatgaaattacaatatgatcctcgagcgccctat 1624

FIGURE 4

1 MSRSVEPLIVGRVIGEVLDPFNPCKVMATYNSNKLVFNGHELYPSAVVSKPRVEVQGGDLRSLFTLVMTPDPVP 75
76 GPSDPYLRHLHWIVSNIPGTTDASFGGEVMSYESPKPNIGIHRFIFVLKQKRRQTVSVPSFRDHFNTRQFAVD 150
151 NDLGLPVAAVYFNCQRETAARRR 173

REPLACEMENT SHEET

FIGURE 5

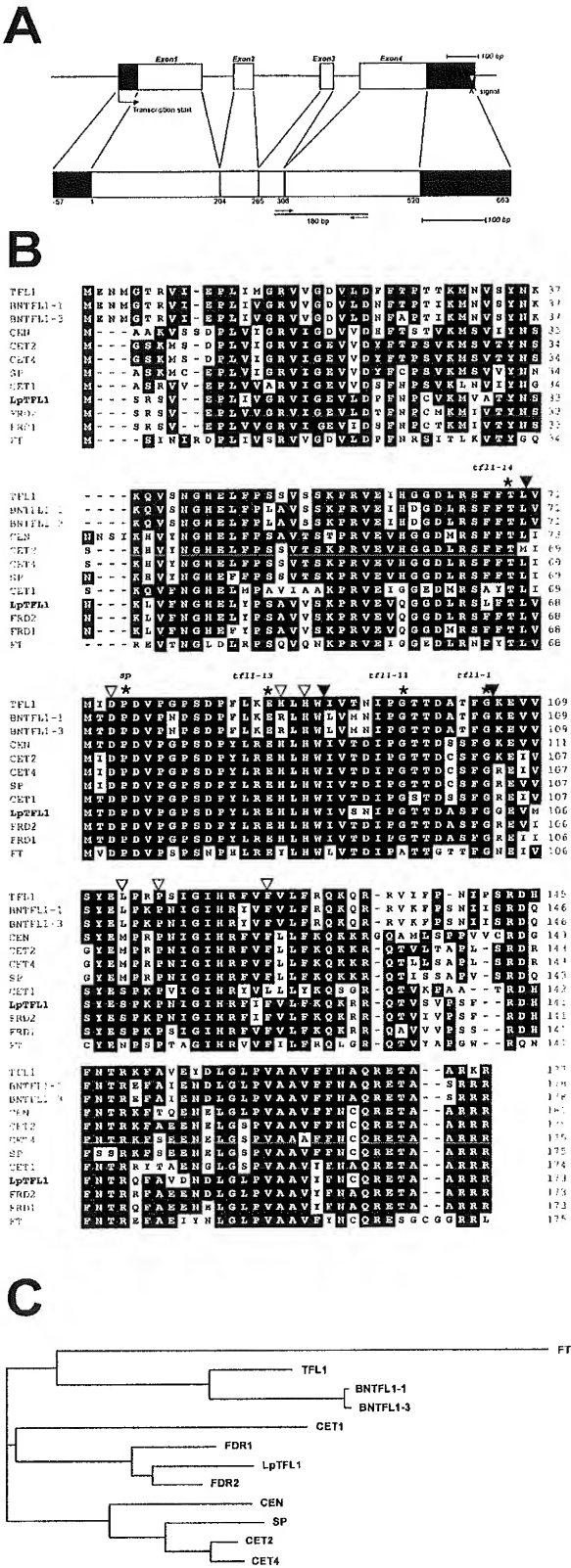
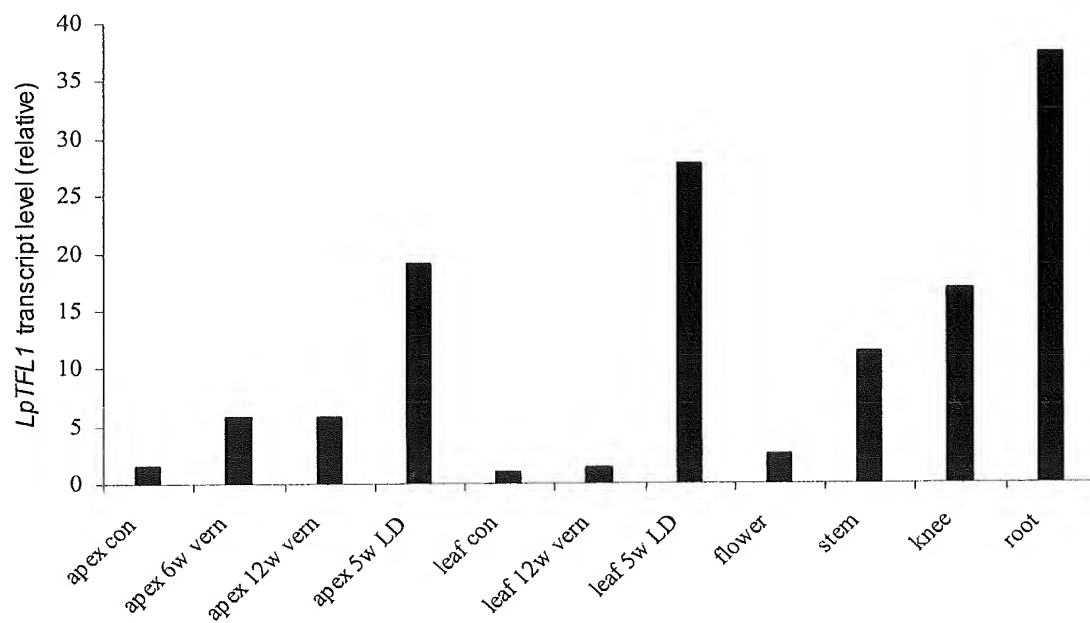


FIGURE 6

REPLACEMENT SHEET

FIGURE 7

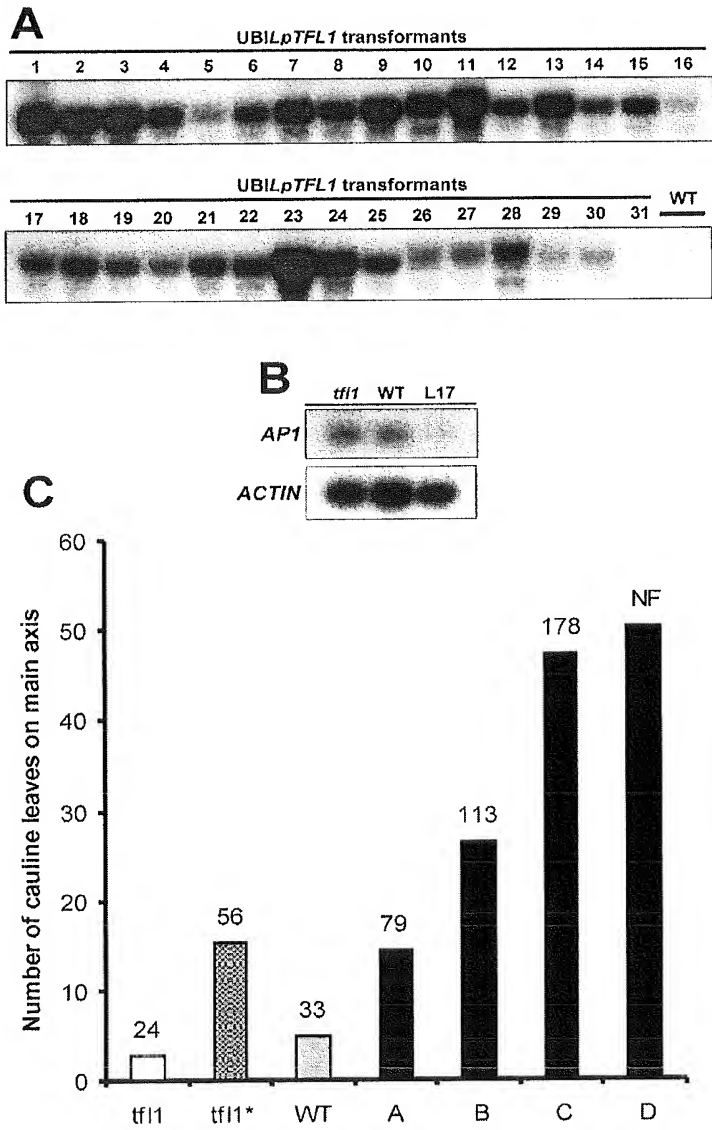
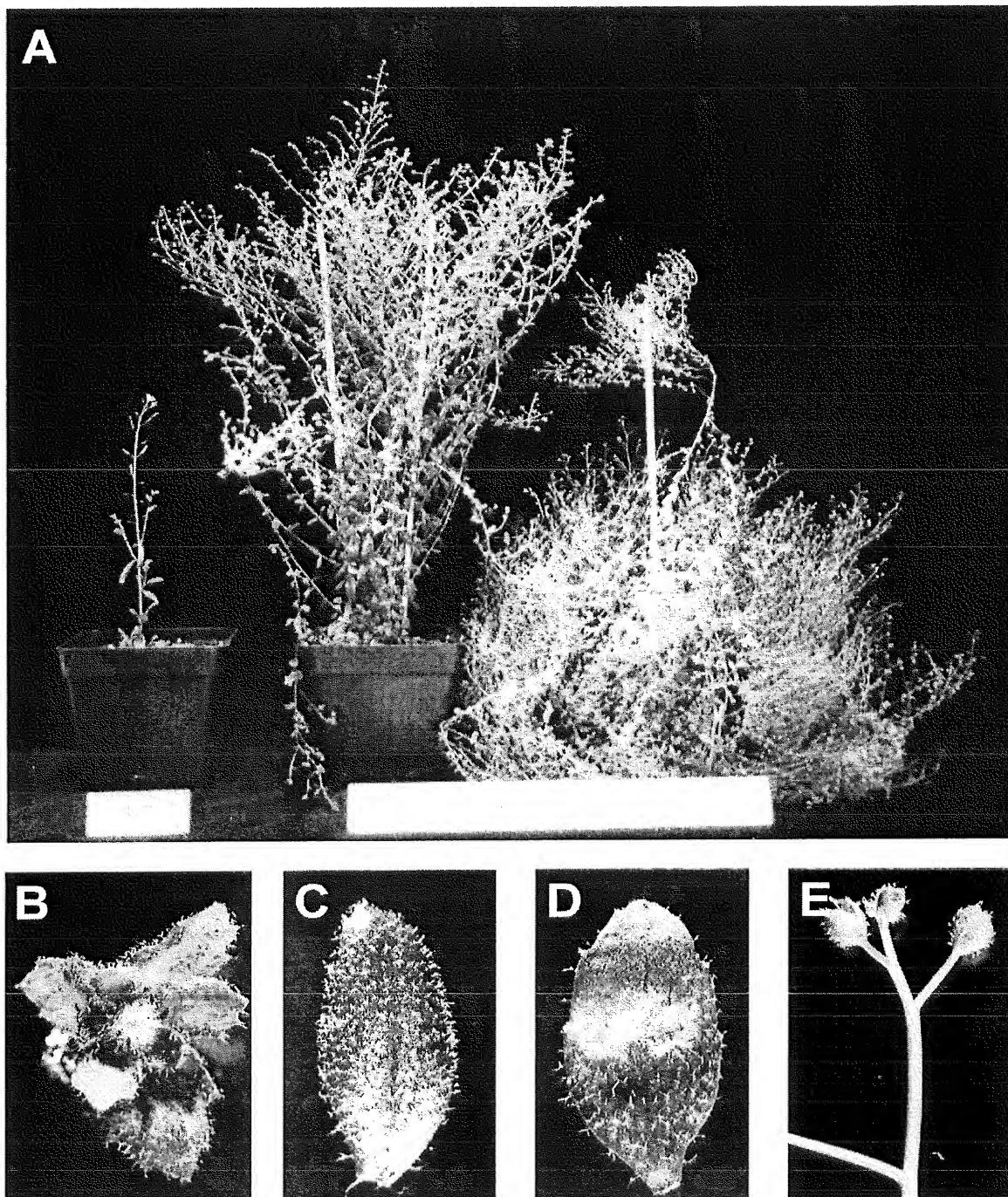
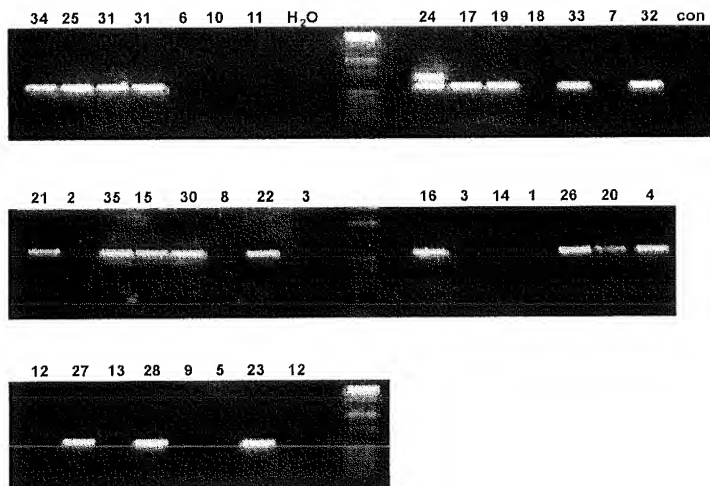


FIGURE 8



REPLACEMENT SHEET

FIGURE 9



REPLACEMENT SHEET

App No.: 10/507,355
Inventor: Klaus K. NIELSEN et al.
Title: METHOD OF REPRESSING FLOWERING IN A PLANT
REPLACEMENT SHEET

Docket No.: 0147-0262PUS1

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FIGURE 10

REPLACEMENT SHEET

FIGURE 11

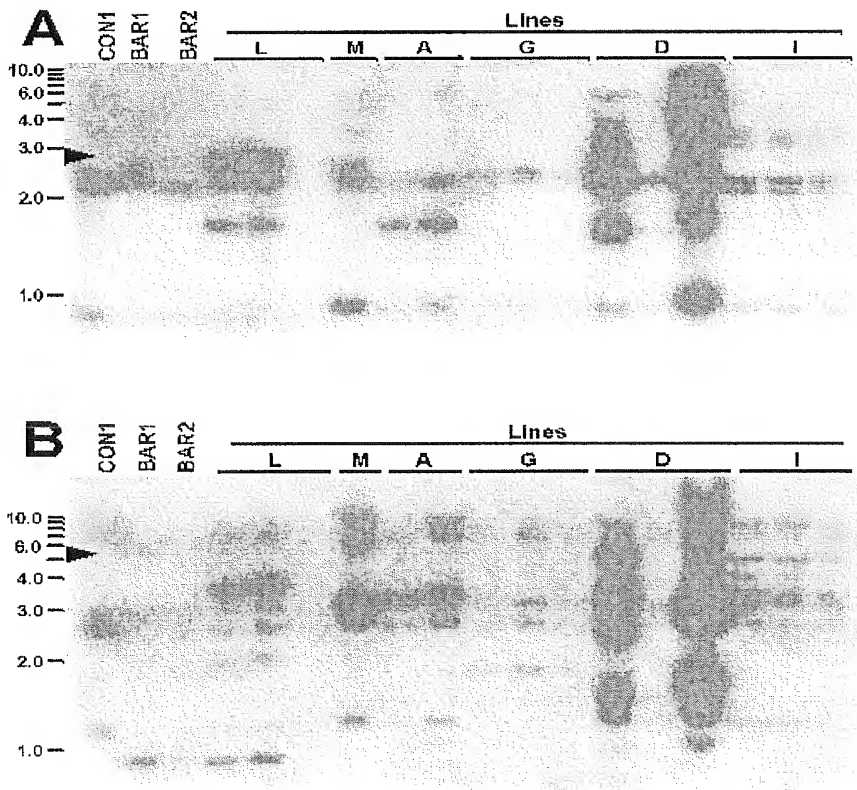


FIGURE 12

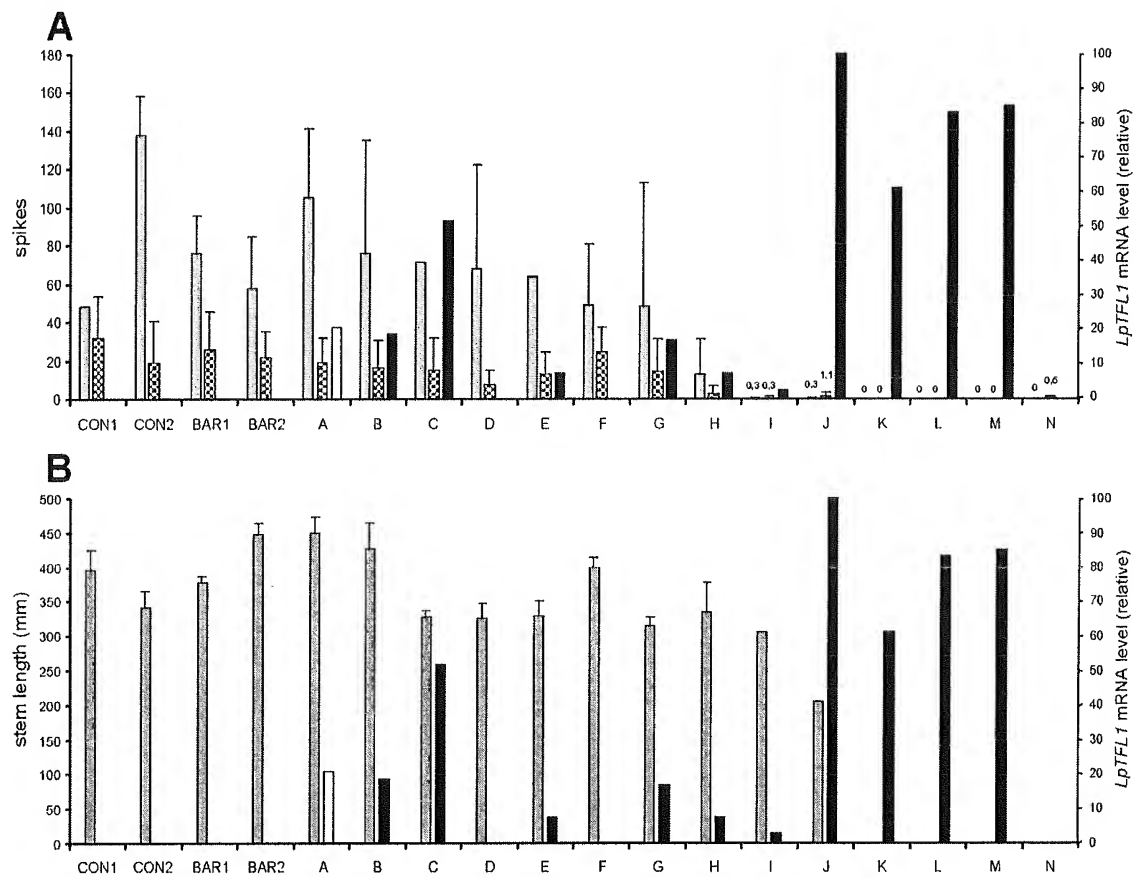


FIGURE 13

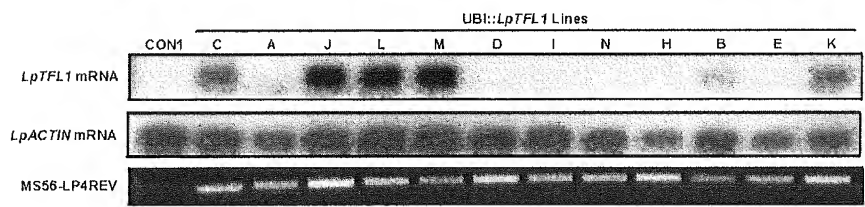


FIGURE 14

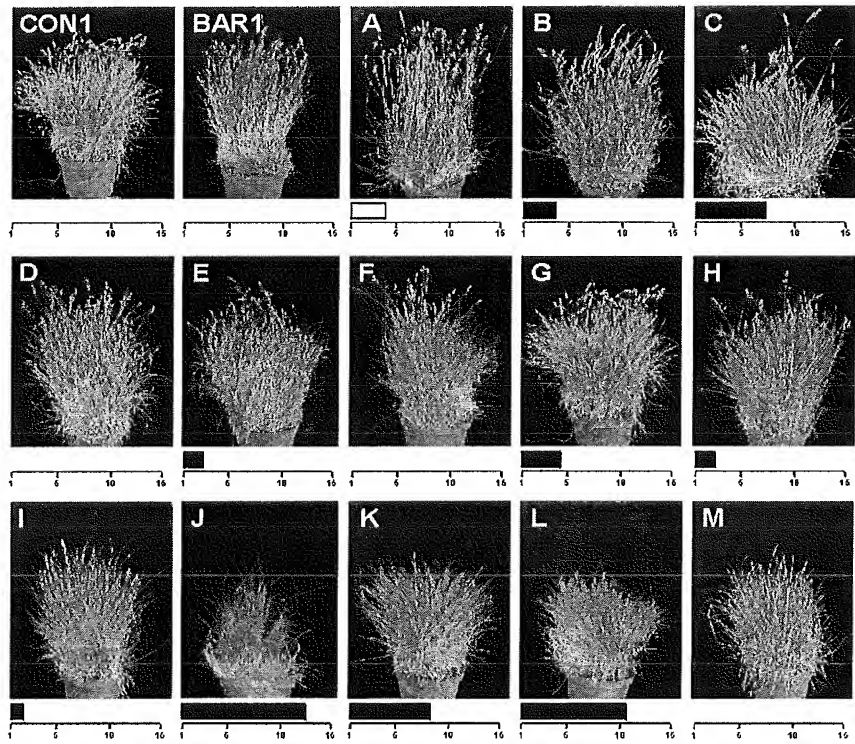


FIGURE 15

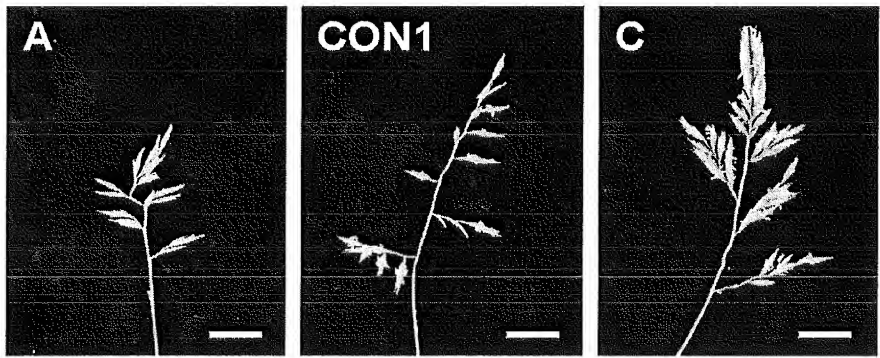


FIGURE 16: *Transformation Efficiency and Floral Activity of the Transformants*

Cultivar	Line No.	Inflorescences	PCR	RT-PCR
F6	CON	8	-	-
F6	7	18	-	-
F6	8	11	-	-
F6	17	5,3	+	-
F6	18	13,3	+	-
F6	24	12	+	+
F6	29	0	+	+
F6	32	0	+	+
F6	33	4	+	+
F6	36	0	+	+
ACTION	2	1,8	-	-
ACTION	5	3	-	-
ACTION	9	0,3	-	-
ACTION	12	2	-	-
ACTION	13	0	-	-
ACTION	16	0	+	-
ACTION	19	7,3	+	-
ACTION	21	4	+	+
ACTION	22	0,3	+	+
ACTION	23	0	+	+
ACTION	25	0,3	+	+
ACTION	27	0	+	+
ACTION	28	4	+	+
ACTION	31	0	+	+
ACTION	34	0	+	+
ACTION	35	0	+	+
TELSTAR	1	10	-	-
TELSTAR	3	1	-	-
TELSTAR	4	11,6	-	-
TELSTAR	6	10,8	-	-
TELSTAR	10	5	-	-
TELSTAR	11	3,8	-	-
TELSTAR	14	0	-	-
TELSTAR	15	3,8	+	-
TELSTAR	20	3,5	+	-
TELSTAR	26	0	+	+
TELSTAR	30	3,7	+	+

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Figur 17: Transgene integration analysis by PCR using different primer combinations

Primer combination	UBI::LpTFL1 transgenic lines ^a															
	CASSETTE	CON	BAR	A	B	C	D	E	F	G	H	I	J	K	L	M
	UBI promoter H Intron LpTFL1 MS8 HE															
	MS33-LP575						0.8						+		+	0.8
	MS33-LP4REV						0.55						+		+	0.55
	MS31-LP4REV			+						1.4	+		+		+	1.5
	MS56-LP575				+		+0.5	+		+0.5	+	+	+		+	+0.5
	LP0-MS8				+		+M	+		+	+	+1.8	+		+	+1.6
	MS56-LP4REV (intron::LpTFL1 probe)			+	+	+	+	+	+	+	+	+	+		+	+
Result	Promoter	short					TATA box			short	short		ok		ok	short TATA box
	Intron	ok					ok			ok	ok		ok		ok	ok
	LpTFL1 cDNA	truncated	ok	ok	ok	ok	ok + extra	ok	truncated	ok	ok	ok + extra	ok	ok	ok	ok + extra

^aplus indicates that the observed fragment had the expected size, whereas numbers indicate that the fragment size deviated from the expected size (numbers in bold), blank field indicates that no PCR-product was detected; E, EcoRI; H, HindIII